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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/887,119	(	06/25/2001	Masanobu Saito	35.C15478	7331	
5514	7590	09/06/2002				
		LA HARPER &	EXAM	EXAMINER		
30 ROCKEI NEW YORI			NGHIEM, MICHAEL P			
				ART UNIT	PAPER NUMBER	
				2861		
				DATE MAILED: 09/06/2002	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

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			Application	n No.	Applicant(s)	_ 7
	. "		09/887,11	9	SAITO ET AL.	
•	Offic	Acti n Summary	Examiner		Art Unit	
			Michael P	Nghiem	2861	
	The MAI	LING DATE of this commun	ication appears on the	cover sheet	with the correspond no address	
Perio	dfrReply					
T - - - -	Extensions of time after SIX (6) MONT If the period for rep If NO period for rept Failure to reply with Any reply received earned patent term	O STATUTORY PERIOD FOR DATE OF THIS COMMUNI may be available under the provisions THS from the mailing date of this common by specified above is less than thirty of specified above, the maximum stain the set or extended period for reply by the Office later than three months and adjustment. See 37 CFR 1.704(b).	of 37 CFR 1.136(a). In no evinunication.  i)) days, a reply within the state atutory period will apply and w	ent, however, may a utory minimum of the ill expire SIX (6) Mo	a repty be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communi ARANDONED (35 U.S.C. § 133).	ication.
Statu		to the announication(s) fi	led on			
	<u></u>	sive to communication(s) fi	2b)⊠ This action is	non-final		
	n) This act				natters, prosecution as to the me	erits is
	B)∏ Since the closed in sition of Cla	n accordance with the prac	n for allowance except tice under <i>Ex parte</i> C	<i>uayle</i> , 1935 (	C.D. 11, 453 O.G. 213.	
		<u>1-24</u> is/are pending in the	application.			
•	رو) المالين المالين (4a) Of th	e above claim(s) is/a	are withdrawn from co	onsideration.		
		is/are allowed.				
		1-24 is/are rejected.				
		is/are objected to.				
		are subject to restri	iction and/or election	requirement.	;	
	olication Pape					
	9)⊠ The spec	ification is objected to by the	ne Examiner.			
10	∩\⊠ The draw	ing(s) filed on 25 June 200	<u>)1</u> is/are: a)□ accepte	d or b)⊠ obje	cted to by the Examiner.	
	Annlica	nt may not request that any of	biection to the drawing(	s) be held in ab	eyance. See 37 CFR 1.85(a).	
1	1) The prop	osed drawing correction file	ed on is: a)☐	approved b)L	disapproved by the Examiner.	
	If appro	oved, corrected drawings are r	equired in reply to this (	Office action.		
1		or declaration is objected				
Pri	rity under 35	U.S.C. §§ 119 and 120		•	· ·	
1	3) Acknow	ledgment is made of a clai	m for foreign priority ι	under 35 U.S.	C. § 119(a)-(d) or (f).	
	a)⊠ All b	) Some * c) None of	:			
	1 🕅 0	ertified copies of the priori	ty documents have be	een received.		
	2□ (	certified copies of the priori	ty documents have be	een received i	n Application No	
	3.□ 0	Copies of the certified copie application from the Inte attached detailed Office ac	s of the priority docur	ments have be	een received in this National Sta a)).	ige
_	See the	adament is made of a claim	n for domestic priority	under 35 U.S	S.C. § 119(e) (to a provisional ap	plication).
1	4) Acknowl	edgment is made of a claim e translation of the foreign	language provisional	application ha	as been received.	
1	15)☐ Acknow	e translation of the foreign ledgment is made of a clair	m for domestic priority	under 35 U.S	S.C. §§ 120 and/or 121.	
1	achment(s)			4) 🗍 Inter	view Summary (PTO-413) Paper No(s).	·
2/[	Notice of Draft	rences Cited (PTO-892) sperson's Patent Drawing Review sclosure Statement(s) (PTO-1449	v (PTO-948) 9) Paper No(s) <u>5</u> .	5) Notic	the of Informal Patent Application (PTO-1)	52)

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#### **DETAILED ACTION**

## Specification

- 1. The disclosure is objected to because of the following informalities:
- "the image clock" (page 24, line 17) should be -- The image clock --.

Appropriate correction is required.

### **Drawings**

- 2. The drawings are objected to under 37 CFR 1.83(a) because they fail to show "nip unit N2" (page 18, line 20) as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP 608.02(d). Correction is required.
- 3. The drawings are objected to because "Meam B" (Fig. 4) should be Beam B --. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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### Claim R j cti ns - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2, 3, 5-24 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claims 2, 3, 5, 6, it is not possible to turn on both beams (A, B) before modulating the drive signals (see elements 33-35, Fig. 3).

Claims 7-24, the specification is not described in such a way as to enable one skilled in the art to which it pertains to make or reconstruct the detecting means and exposure intensity control means as claimed.

### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than on year prior to the date of application for patent in

the United States.

Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Curry (US

5,430,472).

Curry discloses all the claimed features of the invention including:

- an image forming apparatus (Fig. 1) comprising:

- a scanning means (including 17) for scanning a photosensitive body (14, 24)

using a plurality of semiconductor lasers (15, column 20, lines 30-32) to form a latent

image (Fig. 1);

- a latent image forming means (including 41) for pulse-widthmodulating a drive

signal of the semiconductor lasers in accordance with a write position of the latent

image (Fig. 1), when exposure is performed such that one of beams from the plurality of

semiconductor lasers is partially overlapped with a beam adjacent to one of the beams

from the plurality of semiconductor lasers on the photosensitive body (Fig. 11G).

Claims 7-9, 12-17, and 20-24 are rejected under 35 U.S.C. 102(b) as being anticipated

by Takeshi (JP 08-317157).

Takeshi discloses all the claimed features of the invention including:

- an image forming apparatus (Fig. 2) comprising:

- a plurality of emitting means (Constitution, line 3) for emitting a

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plurality of light beams;

- scanning means (including 20) for scanning the plurality of light beams emitted from the plurality of emitting means on a common photosensitive body (22);

- modulating means (Constitution, line 5) for modulating the plurality of light beams in accordance with respective image data;
- detecting means (Constitution, lines 8-9) for detecting a plurality of image pixels which are adjacent to each other in a sub scanning direction and exposed in different main scannings (Fig. 2), in accordance with the image data;
- exposure intensity control means (Constitution, lines 9-10) for relatively decreasing an exposure intensity of the light beams for at least one of the plurality of image pixels detected by the detecting means, in response to a detection result of the detecting means (Constitution, lines 9-11);
- the exposure intensity control means controls an exposure time of the light beams for recording one pixel (Constitution, lines 3-5);
- the exposure intensity control means causes the modulating means to pulse-width-modulate (Constitution, line 5);
- the detecting means has means for storing image data of at least one main scanning (Constitution, lines 1-2).

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### C ntact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Nghiem whose telephone number is (703) 306-3445. The examiner can normally be reached on M-H from 6:30AM – 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Hilten can be reached at (703) 308-0719. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-5841 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

MICHAEL NGHIEM
PRIMARY EXAMINER

Michael Nghiem

September 4, 2002